|  | **Name** | **Index** | **Importance** |
| --- | --- | --- | --- |
| 1 | fBodyAccJerk-bandsEnergy()-1,8 | 365 | 1577.8871 |
| 2 | fBodyAccJerk-bandsEnergy()-1,16 | 373 | 1577.4951 |
| 3 | tBodyGyroJerk-iqr()-Z | 182 | 1124.4761 |
| 4 | fBodyAccJerk-bandsEnergy()-1,24 | 377 | 1124.0381 |
| 5 | tBodyAccJerk-iqr()-X | 100 | 1010.7969 |
| 6 | fBodyAccJerk-max()-X | 337 | 1002.7653 |
| 7 | fBodyAccJerk-energy()-X | 344 | 783.8708 |
| 8 | tBodyAccJerk-energy()-X | 97 | 783.3073 |
| 9 | tBodyAccJerk-mad()-X | 87 | 562.4392 |
| 10 | tBodyAccJerk-std()-X | 84 | 557.1092 |
| 11 | tGravityAcc-min()-X | 53 | 465.3418 |
| 12 | fBodyAccJerk-entropy()-X | 350 | 334.3399 |
| 13 | tGravityAcc-mean()-X | 41 | 321.1031 |
| 14 | tBodyGyroJerk-mad()-Z | 169 | 228.0713 |
| 15 | angle(X,gravityMean) | 538 | 210.2672 |
| 16 | tGravityAcc-arCoeff()-Y,2 | 71 | 199.0962 |
| 17 | tGravityAcc-arCoeff()-Z,2 | 75 | 196.1408 |
| 18 | tGravityAcc-energy()-X | 57 | 178.0157 |
| 19 | angle(Y,gravityMean) | 539 | 151.3229 |
| 20 | tGravityAcc-mean()-Y | 42 | 139.3073 |

|  | **training\_error** | **validation\_error** | **test\_error** |
| --- | --- | --- | --- |
| feature 539, 84 | 0.136416634 | 0.17193948 | 0.1737661 |
| feature 539, 53, 365 | 0.008744656 | 0.06740028 | 0.0872211 |